

[54] **PUP JOINT WITH INTEGRAL WING NUT  
RETENTION SHOULDER**

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285/388

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285/387, 388, 321

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[57] **ABSTRACT**

A pup joint is provided which comprises a length of pipe, a female sub integral with one end of the pipe and having external threads formed thereon, a male sub integral with the other end of the pipe, a wing nut for threadedly connecting the male sub to the female sub, a set of retainer segments for retaining the wing nut on the pup joint, and a retention shoulder formed on the male sub to maintain the wing nut and retainer segments on the male sub. In a preferred embodiment of the invention, the pipe and the male and female subs are comprised of a single forging, and the retention shoulder is formed by machining the male sub.

**3 Claims, 2 Drawing Sheets**

